

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 24 AND BEL AIR SOUTH PARKWAY IN HARFORD COUNTY. MD 24 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE, WITH THE MD 24 APPROACHES OPERATING CONCURRENTLY AND THE BEL AIR SOUTH PARKWAY APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE LEFT TURN PHASES ARE CURRENTLY PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 24.

SIGNAL WORK WILL CONSIST OF THE ADDITION OF EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR EASTBOUND AND WESTBOUND BEL AIR SOUTH PKWY.

LANE USE REVISIONS WILL CONSIST OF MARKING EXCLUSIVE RIGHT TURN LANES ON BEL AIR SOUTH PKWY.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED.

SPECIAL NOTES

1) NO EQUIPMENT WILL BE SUPPLIED BY THE SHA ON THIS PROJECT

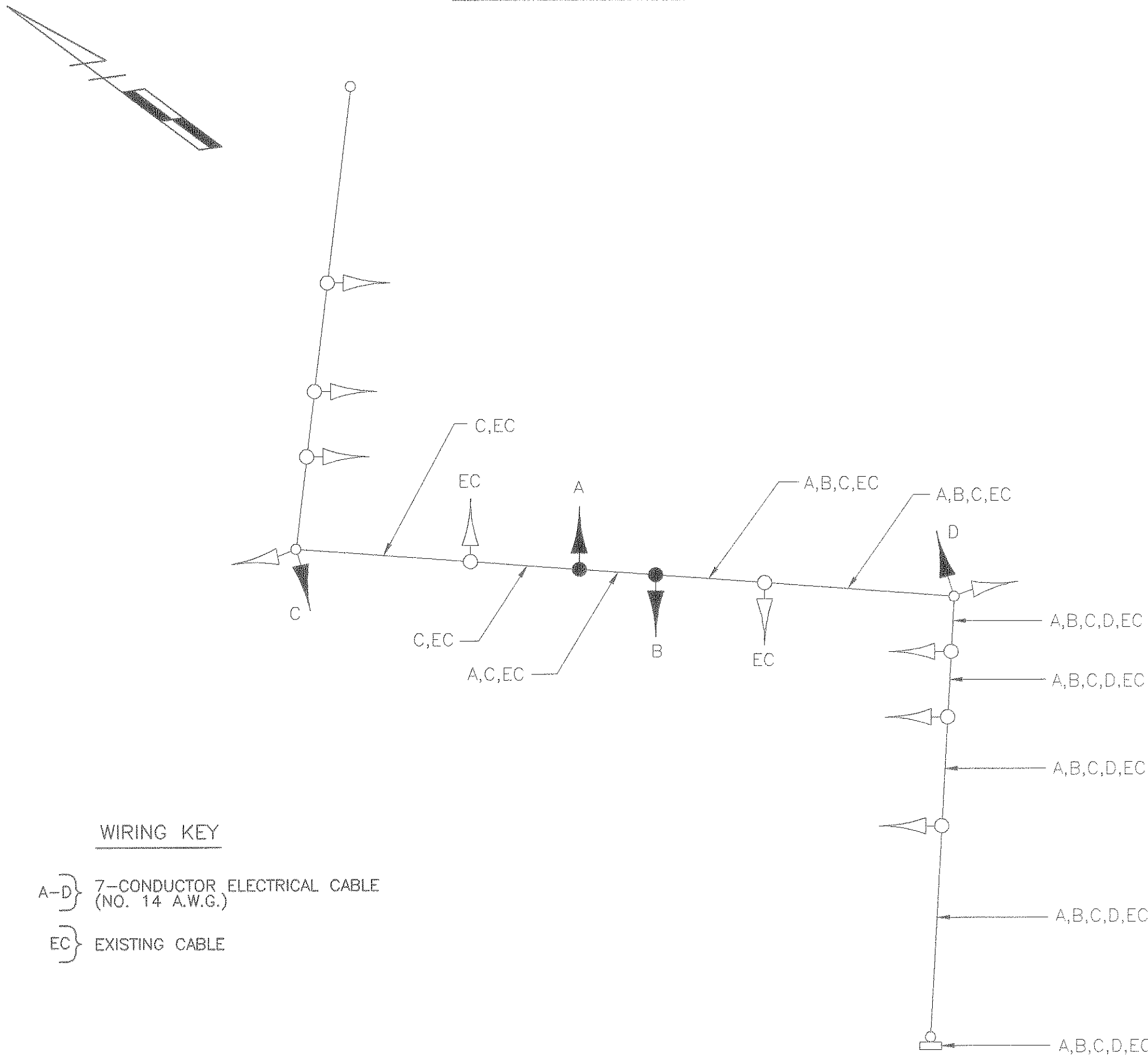
EQUIPMENT LIST

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
----	16 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTER
----	6 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
8010	140 L.F.	FURNISH AND INSTALL STEEL SPAN WIRE - 1/4 IN. DIAMETER
8045	700 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
8051	90 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS - 4 IN. X 4 IN.
----	2 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, FIVE-SECTION (R,Y,YA,G,GA) TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND ADJUSTABLE BRACKET FOR SPAN WIRE MOUNTING
----	80 S.F.	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: - 2 EACH R10-12 SIGN (36 IN. X 42 IN.) - SPAN WIRE MOUNT - 2 EACH R3-5(R) SIGN (30 IN. X 36 IN.) - SPAN WIRE MOUNT - 6 EACH R3-7(R) SIGN (30 IN. X 30 IN.) - GROUND MOUNT
----	2 EACH	REMOVE EXISTING SIGNAL HEAD
----	40 L.F.	24 IN. PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
----	2 EACH	FURNISH AND INSTALL 8 IN./12 IN., ONE-WAY, FIVE-SECTION (R,Y,YA,G,GA) TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND ADJUSTABLE BRACKET FOR POLE MOUNTING

NOTE: ITEM NUMBERS CORRESPOND TO MSHA AREA WIDE CONTRACT

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, 2 + 5 OR 2 + 6																	
PHASE 2 + 5	←G	←G	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
2 + 5 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 1 + 6	←R	←R	R	R	←G	←G	G	G	R	R	R	R	R	R	DW	DW	DW	DW
1 + 6 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3 + 7	←R	←R	R	R	←R	←R	R	R	←G	←G	R	←R	←R	R	DW	DW	DW	DW
3 + 7 CHANGE	PHASE 3 + 7 MAY CHANGE TO PHASE 3 + 8, 4 + 7 OR 4 + 8																	
PHASE 3 + 8	←R	←R	R	R	←R	←R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	
3 + 8 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	←Y	←Y	G	DW	DW	DW	DW	
PHASE 4 + 7	←R	←R	R	R	←R	←R	R	R	←G	←G	G	R	R	R	DW	DW	DW	DW
4 + 7 CHANGE	←R	←R	R	R	←R	←R	R	R	←Y	←Y	G	R	R	R	DW	DW	DW	DW
PHASE 4 + 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 + 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT. + 8	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	WK	WK	WK	WK
PED CLEAR	←R	←R	R	R	←R	←R	R	R	G	G	G	G	G	G	FL/DW	FL/DW	FL/DW	FL/DW
4 ALT + 8 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

TRAFFIC CONCEPTS, INC.

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REVISIONS	APPROVALS
	ASSISTANT DIVISION CHIEF
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENG. DESIGN DIV.
	DIR., OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 24 AND BEL AIR SOUTH PARKWAY

DATE: 4-15-98	DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: T. ZAYDEL	S.H.A. NO.	TS-	2 OF 2
APPROVED BY: T. ZAYDEL	CHECKED BY: K. SCHMID	COUNTY: HARFORD		